

City of Castle Rock
(1) New Ambulance Chassis including Ambulance Remount & Refurbishment
Bids due by 5:00 PM (Pacific Standard Time) on August 8, 2003
ADVERTISEMENT FOR BIDS

Notice is hereby given that sealed bids will be received by the City of Castle Rock until 5:00 PM (Pacific Standard Time) on August 8, 2003 for furnishing one new 2004 Ford F-350 4X4 chassis and remounting an existing ambulance body thereupon, including the refurbishment of the existing ambulance body as specified.

Bids shall be directed to "Fire Chief Eric Koreis, City of Castle Rock, P.O. Box 370, Castle Rock, Washington 98611". Bids shall be securely sealed and endorsed clearly upon the outside wrapper "AMBULANCE REMOUNT SEALED BID".

The bids shall be publicly opened on August 8, at 5:30 PM (Pacific Standard Time) at Castle Rock Fire Station 61. No bidder may withdraw his bid after the hour set for the opening of bids or before award of contract unless said award is delayed for a period of thirty (30) days.

Beginning July 5, 2003 copies of specifications may be obtained electronically in PDF format via the Internet at www.crfa.gov. Hardcopy specifications will be made available for a \$20 fee by making a written request to Castle Rock Fire & EMS, 146 A Street SW, P.O. Box 370, Castle Rock, Washington 98611, (360) 274-4413.

The City of Castle Rock reserves the right to reject any or all bids or accept any presented which is deemed to be in it's best interest and is not necessarily bound to accept low bid.

**REMOUNT SPECIFICATIONS
FOR
CASTLE ROCK FIRE & EMS
CITY OF CASTLE ROCK, WASHINGTON**

1 CHASSIS

1.01 OEM CHASSIS

- Shall be a 2004 Ford F-350, 4 X 4, and shall meet all the specifications of Section 1.01.
- Ambulance Prep. Package
- 3-year/36,000 mile "Bumper to Bumper" warranty.
- Dual Rear Wheels

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 4
- G.V.W.R- 12,500 lbs.
- Front Axle – 5,000 lbs.
- Rear Axle – 9,750 lbs.
- Wheelbase – 165"
- Cab to Axle – 84"
- Curb Weight – 9,800 lbs. Approximate
- Payload – 2,300 lbs. Approximate
- Rear Differential – 4.10:1 ratio, limited slip wide track rear axle
- Front Spring Capacity – 5,200 lbs.
- Rear Spring Capacity – 9,750 lbs.

1.01.02 POWER TRAIN

- Engine
 - 6.0 liter turbo diesel
 - 5 year/100,000 mile warranty
 - External oil cooler
 - Factory diesel package
 - 1,000 watt engine heater
 - Heavy duty dry type air cleaner with flow restriction indicator
- Engine Cooling System
 - Heavy duty, closed-air, free-liquid state type
 - Coolant recovery system
 - 50/50 solution Permanent type antifreeze to –40 degrees F
- Transmission
 - Heavy duty automatic, four (4) speeds forward, one (1) reverse
 - External oil cooler in chassis grille area

- Exhaust System
 - System complies with Federal Motor Carrier Safety Regulations, Part 393.83
 - Suspended using three (3) hangers, excluding manifold attachment
 - Discharge at right rear side of module
 - Tailpipe shall not terminate within six (6) inches of the vertical axis of the fuel tank filler opening.

1.01.03 STEERING

- Power assisted
- Tilt steering wheel

1.01.04 SHOCK ABSORBERS/STABILIZER BAR

- Heavy-duty shock absorbers front and rear.
- OEM front and rear stabilizer bar.

1.01.05 BRAKES

- Heavy duty power assisted
- Front and rear disc
- Front 13.03" diameter
- Rear 12.83" diameter
- Four Wheel ABS.

1.01.6 TIRES AND WHEELS

- OEM LT 235-85Rx-16E all-season steel belted radials on 6.0 inch rims.
- Seven (7) tires and wheels
- OEM jack and tire changing tools
- Spare tire and wheel shall be shipped loose.

1.01.06 ELECTRICAL

- Alternators – OEM Dual 115 Amp
- Batteries – OEM Dual 750 CCA
- Auto Throttle – OEM installed

1.01.07 INSTRUMENT PANEL AND CONTROLS

- Gauges
 - Speedometer
 - Tachometer
 - Trip odometer
 - Trans. Temp
 - Fuel
 - Water temperature
 - Oil pressure
- Controls
 - Cruise
 - Audio – OEM AM/FM/Cassette/CD

1.01.08**CAB EXTERIOR**

- Trim Level – XLT
- Horn – OEM dual electric
- Windows
 - Power
 - Tinted safety glass
- Windshield wipers
 - Two- speed electric
 - Washer and intermittent speed control
- Mirrors
 - Two (2) black, below eye level
 - Manually telescoping trailer tow
 - Power glass
 - Heated Glass, upper portion
 - Turn Indicators and clearance lights on outside edge
 - Upper portion 7”W x 8.25”H.
 - Lower portion 6.5”W x 2”H convex
- Bumper – Chrome
- Tow Hooks – Two (2) Front
- Lights
 - Headlamps – Single beam jewel effect
 - Roof clearance light
 - Under hood service light
- Fuel – OEM 40 gallon tank

1.01.09**CAB INTERIOR**

- Trim Level – XLT
- Seats – OEM
 - Cloth covered high back Captain’s Chairs
 - Combination lap and shoulder harness
 - Retractable arms on inside, side door armrest
- Flooring – rubber
- Climate Control – OEM
 - Heavy duty, fresh air, high capacity heater/defroster
 - Dehumidifying air conditioning system
- Other
 - Dual Air Bags
 - Padded Sun Visors, Dash, and Door Panels
 - Molded cloth headliner
 - Reduced Sound Package
 - Dual dome lights
 - Cup Holder
 - Auxiliary power point
 - Interior Hood Release
 - Red door warning lights
 - Electric Door Lock

1.01.11**COLORS**

- Exterior – Red (F1)
- Interior – Gray

1.02 CHASSIS MODIFICATION

The following modifications will be made to the chassis.

1.02.03 SIMULATORS

Stainless steel wheel simulators with rear valve stem extensions shall be installed.

1.02.04 EXHAUST HEAT SHIELD

Shall be formed from 18 ga. galvanized steel sheets with stamped reinforcements and formed edges. Access openings shall be provided for shock absorber, mounting bolts, etc. Heat shields shall be bolted to chassis frame and extend from back of cab to the frame cross member just behind the rear axle.

1.02.05 RUNNING BOARDS WITH SPLASH GUARDS

New Running Boards fabricated from bright finish 0.125" aluminum diamond plate shall be installed.

1.02.12 MAP BOOK HOLDER

Shall be installed in the cab between the seats. The map book holder shall have four (4) fixed dividers, Model BNW #40112.

1.02.30A CHASSIS MODIFICATION

The load height for the vehicle shall be lowered by de-arching the rear leaf springs.

1.03 MODULE-TO-CHASSIS MOUNTING SYSTEM

1.03.01 MODULE MOUNTING SYSTEM

The module shall be bolted to the chassis frame in eight (8) locations. Each mounting location shall include a hard rubber isolation pad between the chassis frame and the module lateral frame. Six (6) 3/4" Grade 5 bolts shall extend through the lateral and sides of the frame member and bolt to the web of the chassis frame with a 3/4 Grade 5 bolt. The two (2) rearmost bolts shall be 5/8" bolts. All bolts shall be secured with locking nuts.

1.03.02 CAB-TO-MODULE ATTACHMENT

The module shall be attached to the cab with a flexible watertight boot to allow cab-body flex as designed by the chassis manufacturer. The chassis back shall be modified and reinforced with a welded steel framework. The rear window openings on each side of the module access shall be covered with 18 ga. steel and painted to match the body.

2 MODULAR CONSTRUCTION

2.08 EXTERIOR COMPARTMENTS

Transfer existing compartment shelves and dividers.

2.09 MODULE DOORS

Transfer existing doors.

2.09.01 DOOR SEAL

Install new door gaskets for all doors.

2.09.02 DOOR HINGES

Transfer existing hinges.

2.09.03 DOOR LATCHES

Transfer and lubricate all compartment and passage door latches. Adjust for proper operation.

2.09.04 COMPARTMENT DOOR CONTROL

Transfer and lubricate door hold open devices.

2.09.05 CURBSIDE DOOR CONTROL

Transfer and lubricate door hold open devices.

2.09.06 REAR DOOR CONTROL

Transfer and lubricate door hold open devices.

2.09.07 COMPARTMENT DOOR SKINS

Transfer existing compartment door skins.

2.09.08 ENTRANCE DOOR SKINS

Transfer passage door skins.

Install 16" high stainless steel kick panels on passage doors.

2.09.10 THRESHOLDS

Transfer door thresholds as they exist.

2.10 MODULE INTERIOR CABINETS

Transfer all existing cabinets and doors. Replace existing acrylic doors with clear acrylic door with existing door pulls.

The following additions/modifications shall be made:

- Re-Attach any loose vinyl cabinet coverings and replace front retaining edge of right front stack adjustable shelves. Add angle underneath shelf for additional support at customer specified height(s).

2.12 FRONT MODULE WALL RECESS

Front bulkhead wall and closeouts shall be modified to accept new chassis style.

Exterior of front wall shall have an aluminum diamond plate overlay.

2.13 CAB TO MODULE PASSAGE

Partition door shall be removed to accommodate modifications for new chassis style.

3 COATINGS AND FINISHES

3.01 MODULE FINISH PREPARATION

The module shall be sanded and imperfections on aluminum surfaces of module shall be sanded smooth. The entire exterior shall be mechanically etched and washed with wax and grease remover to ensure proper primer and paint adhesion.

3.02 MODULE PRIMER

Bare metal shall be primed with epoxy primer prior to applying the finish coat of acrylic urethane paint.

3.03 PAINT TYPE

Shall be BASF "UNO" acrylic urethane.

3.04 COLOR SCHEME

Base color: Red (Ford Red)

Stripe #1	Color:	White
	Width:	6"
	Style:	Straight
	Material:	Scotchlite
	Location:	Beltline around vehicle (<i>Match photos</i>)

3.06 COMPARTMENT FINISH

Compartment interiors from weather strip in, shall not be repainted.

3.08 MODULE UPHOLSTERY

Transfer all upholstery with existing covering.

3.09 MODULE FLOORING MATERIAL

Shall be Genome (#TFM2702) Altro Transflor Meta Slip-Retardant Sheet flooring providing durability, ease of maintenance, and stain resistance. It shall contain a high concentration of microscopic aluminum oxide particles and colored quartz crystals suspended throughout the thickness with silicon carbide grains in the entire wear surface for slip-retardant performance. It shall have a bacteriostat incorporated to give flooring excellent anti-bacterial activity and an overall thickness of 0.11" nominal. Flooring shall be manufactured for Wear Resistance to meet ASTM C 501, indentation resistance in accordance with ASTM F 1303 and ASTM F 970, Grade 1 standards, shall meet ASTM D 2047 Slip Retardant, ASTM F 970 Static Load, ASTM E648, CMVSS, FMVSS 302, CAN ULC S102.2 Fire Data Tests. It shall be seamless and cove up the sidewalls a minimum of 5" as a seal.

3.10 COMPARTMENT LINING

Transfer existing exterior compartment flooring.

3.11 CABINET LINING

Transfer existing cabinet lining.

3.13 AUTOMOTIVE UNDERCOATING SEAL

The entire chassis and module underbody (excluding drive shafts, wheels, exhaust system, and lubrication fittings, per manufacturer's specifications) shall be sprayed with heavy undercoating for reduced corrosion and added sound deadening.

4 MODULE EXTERIOR

4.01X STEP/BUMPER

Polish and transfer rear step bumper.

4.02 RUB RAILS

Transfer existing rub rails.

4.03 FENDER RINGS

Install new black rubber flexible fenderettes.

4.04 DRIP RAIL

Transfer existing drip rails.

4.05 ROCK GUARDS

Install new aluminum diamond plate rock guards.

4.06 REAR STEP GUARD

Polish and transfer existing kick panels.

4.07 FUEL FILL(S)

Transfer fuel fill(s) as they exist.

4.08 MODULE WINDOWS

Transfer existing windows.

5 MODULE INTERIOR

5.01 UPPER WALL COVERING

Transfer and clean existing wall covering.

5.02 HEADLINER

Transfer and clean existing headliner.

5.03 MODULE ACCESS OPENING BUMPERS

Transfer head pads with existing upholstery.

5.04 LOWER WALL COVERING

Transfer and clean existing covering.

5.05 GRAB RAIL

Transfer existing grab rail.

5.06 ACCESS DOOR GRAB RAILS

Transfer existing door and wall grab rails.

5.07 PLASMA HANGERS

Transfer existing IV hangers.

5.08X COT MOUNT

Install new Cot Mount, make and model of cot to be specified by customer prior to installation.

5.09 COT PLATES

Install two (2) 7" wide stainless full-length plates. The cot plates shall be attached with a polyurethane adhesive sealant system.

5.10 ATTENDANT SEAT

Transfer attendant seat with existing upholstery.

5.11 OXYGEN SYSTEM

Transfer and test existing oxygen system.

5.12 SUCTION PUMP

Transfer existing suction pump.

5.13 SUCTION COLLECTOR

Transfer existing system.

5.14 SEATBELTS

Transfer existing seatbelts.

5.17 MODULE CLIMATE CONTROL SYSTEM

Transfer air conditioning unit, replacing hoses and clamps. A/C unit to be modified as necessary to accept 134 refrigerant. Transfer module heater, replacing hoses and valve. Add new thermostat control.

- 5.18** **EXTERNAL AIR INTAKE**
Transfer existing system.
- 5.19** **AIR RETURN**
Transfer existing system.
- 5.20** **EXHAUST VENT**
Transfer and test exhaust system.
- 5.21** **NO SMOKING/FASTEN SEAT BELTS SIGNS**
Transfer existing signs. Replace as needed.
- 5.22** **POST AND WHEEL CUPS**
Transfer existing post and wheel cups on bench seat.
- 5.25** **HANGING HARDWARE**
Transfer and inspect existing hanging hardware. Replace as needed.
- 5.50X** **DOCUMENT/CLIPBOARD ORGANIZER**
The existing organizer shall be removed. A new organizer of similar function shall be fabricated from brushed aluminum and mounted in its place.

6 ELECTRICAL

Provide protection for all wiring looms.

6.01 OVERLOAD PROTECTION DEVICES

All existing relays and circuit breakers shall be transferred, tested, and replaced if defective.

6.02 VOLTMETER

A full-scale 8-18 volt meter shall be installed in cab console.

6.03 AMMETER

A 300-amp ammeter shall be provided and located on driver's console.

6.04 IGNITION CONTROL

All chassis electrical circuits to be controlled by the ignition switch as provided by the OEM chassis manufacturer.

6.05 MODULE POWER

A module power disconnect switch shall be provided to control non-chassis components.

6.07 BACK-UP ALARM

Install new back up alarm and momentary switch.

6.09 DRIVER'S CONSOLE

Made of formed aluminum, shall be installed. This panel shall include the following:

SWITCHES

- | | |
|------------------------|---------------------|
| 1. Module Disconnect | 10. Blank |
| 2. Emergency Master | 11. Left Scene |
| 3. Flashers | 12. Rear Scene |
| 4. Intersection Lights | 13. Right Scene |
| 5. Lightbar - Red | 14. Back-Up Disable |
| 6. Lightbar - White | 15. Spare |
| 7. Flashing Headlights | 16. Blank |
| 8. Blank | 17. Blank |
| 9. Blank | |

OTHER:

Ammeter
Combined Door/Compartment Open Warning Light
Siren Head
Arrowstik Control Head

6.10 SWITCHES

Shall be lighted rocker type and permanently marked by function. One (1) spare switch shall be provided.

6.11X MAP LIGHT

A Sunnex Series 740 (Natick, MA) map light with red lens shall be installed.

- 6.12 DOOR AJAR WARNING LIGHT**
Transfer existing system.
- 6.13 ATTENDANT CONTROL PANEL**
Install new action area switches to accommodate new lighting system and action area.
Remove patient status alert system.
SWITCHES:

1. Fluorescent (Streetside)	3. Aspirator
2. Fluorescent (Curbside)	4. Vent

OTHER:
Fan Switch
Thermostat
- 6.14 ACTION WALL AREA LIGHTING**
Install new Thin-Lite Model #612 light, with 12VDC dual 15" fluorescent bulbs, in Action Area.
- 6.15 STEP LIGHTS**
Transfer existing step lights, replace any burned out bulbs.
- 6.16 MODULE INTERIOR LIGHTING**
Replace existing lighting system with six (6) dual bulb Thinlite fluorescent fixtures. Three of the fixtures on the driver side shall be wired to be "Hot" at all times. A 15-minute timer shall be installed for the lights.
- 6.17 BASIC EXTERIOR LIGHTING**
Transfer and clean lenses of all stop, turn, and back-up lights, clearance lights, and rear lights, replacing any burned out bulbs or broken lights.
Replace all clearance lights with flush mounted Truck-Lite LED clearance lights.
- 6.18 COMMUNICATIONS EQUIPMENT**
The repowering and tuning of radios shall be the responsibility of the customer.
- | | | |
|----------------|--------------|---|
| Item #1 | Description: | Install <i>Customer Supplied</i> Motorola CDM1250 |
| | Location: | Shall be installed on the front face of the map box in the cab. |
| Item #2 | Description: | Transfer existing components of rear headset. |
| | Location: | Terminate connection to headset at radio for customer installation. |
- 6.19 ANTENNA MOUNTS AND CABLES**
Install new *Customer Supplied* antenna and cable. Terminate antenna cable at location of radio mount.
- 6.20 BLOCK HEATER**
A block heater with On/Off switch in power component module shall be wired to the 110 VAC shorepower system and shall be circuit protected. (Section 1.01.06 related)

6.21X SHORELINE POWER

Transfer existing shoreline connection. Add new Red cover.

6.22 BATTERY GROUNDS

In addition to OEM grounds, the following ground circuits shall be added: 4 ga. ground cable from module power component panel to frame, two (2) braided ground straps from the module body to the chassis to reduce RF interference.

6.23 BATTERY CHARGER

Install new power source 30 amp. charger/conditioner.

6.24 BATTERY MODIFICATION

Utilize system as provided with chassis.

6.25 12 VOLT RECEPTACLES

Transfer existing 12 Volt outlets.

6.26 COMPARTMENT LIGHTING

Transfer compartment lights, replacing any burned out bulbs.

6.27 EXTERIOR DOOR SWITCHES

Transfer all compartment and passage door switches.

6.30 EMERGENCY WARNING SYSTEMS

6.30.01 FRONT LIGHT BAR

Install new Code 3 MX 7000 58" Model # 758A1 front lightbar. Shall be equipped with six (6) 50 watt halogen fast rotators and shall include two (2) diamond mirrors for the outboard light pods and two (2) flat mirrors for each of the inboard pods. The upper exterior lenses shall be all clear in color. Rotating lamps in the outboard pods shall be surrounded with fixed red half cylinder filters. Rotators within the inboard pod shall be clear without filters. The light bar shall be equipped with two (2) lower level 55 watt intersection sweep lights which shall be clear in color.

6.30.02 REAR LIGHT BAR

Remove light bar and return to customer.

6.30.03 FLASHERS

Replace all 7x9 flashers with new Whelen #900 series LED red lights with chrome flanges.

Install two (2) new Whelen #600 Series Strobe red lights with chrome flanges, one (1) on either side of rear passage doors, below window height.

Install two (2) new Whelen #600 Series Strobe red lights with chrome flanges, Strobe amber lights, one (1) on either side of rear passage doors, above window height.

6.30.04 SCENELIGHTS

Transfer and clean lenses of existing scene and load lights replacing any burned out bulbs, and broken lenses.

Install two (2) new Whelen 700 Series, scenelights at the below the Arrowstik light bar on the rear of the module in a position agreed upon by the customer. Remove old drip rail and install new drip rail on rear above back door.

6.30.05 SPOTLIGHT

Shall be a 300,000cp Questar roof mounted spotlight, installed in the center of the cab roof. It shall be accessible to both driver and passenger.

6.30.06 INTERSECTION LIGHTS

Install two (2) new Whelen 600 Series Strobe, red/white split lights with chrome flanges, one (1) on either chassis fender, as far forward as possible.

Install two (2) new Whelen 600 Series LED red lights with chrome flanges, one (1) above either rear wheel well.

6.30.07 HEADLIGHT FLASHER UNIT

Shall be a Whelen UHF 2150A headlight alternating flasher unit.

6.30.08 GRILLE LIGHTS

Install new Whelen #600 Red LED flashers in grille.

6.30.09 SIREN

Shall be a Whelen 295HFSA1, 200 watt. Siren options to include radio, horn, manual, wail, yelp, and phaser.

6.30.10 SIREN SPEAKERS

Shall be a Cast Products 4020 "In-the-Bumper" Mount System with two 100 watt speaker drivers.

6.30.11 SEQUENTIAL SWITCHING SYSTEM

A Kussmaul sequential switching system shall be installed to control emergency lighting.

6.30.12 HALOGEN FLASHER CONTROL

Install new Vanner Halogen Flasher control unit.

6.30.13 STROBE POWER SUPPLY

Install new Whelen UPS 690, six position power supply.

6.30.14X TRAFFIC ADVISOR / ARROWSTIK

A Code 3 Brand 47" Model #AS847 ArrowStik shall be installed on the rear of the module. The lenses shall be amber in color without the optional painted black arrows. A Code 3 AS-EX deluxe control head shall be provided to control the unit. The control head shall be flush mounted in the lower portion of the Driver's Console face. The ArrowStik shall be wired to automatically activate in "flash" mode anytime the "flashers" switch is on. In addition, the unit shall operate independently anytime the control head switch is activated.

7 SUPPORTING DOCUMENTATION

7.01 OWNER'S MANUAL

1. Chassis owner information packet.
2. Extra set of keys.
3. Remount warranty.
4. Factory Chassis warranty.
5. 1-year/24,000 mile limited electrical warranty.
6. Electrical equipment amperage ratings.
7. Alternator maintenance information.
8. Schematics for individual options.
9. Warranty and parts list for lightbar, etc.

7.02 CHASSIS MANUFACTURER'S MANUALS

A complete set of Helms Chassis Manuals shall be provided.

8 MISCELLANEOUS MEDICAL/RESCUE EQUIPMENT

8.01 LOOSE EQUIPMENT

The following equipment shall be shipped loose with the vehicle:

1. Touch Up Paint
2. Spare Tire and Wheel

8.02 CUSTOMER SUPPLIED EQUIPMENT

The customer shall provide the following equipment:

1. Radio / Antenna

8.03 EQUIPMENT TO BE RETURNED

The following equipment, if not transferred or reused, shall be returned to customer:

1. All lights, sirens, speakers, console, etc.

* * *